

## Product datasheet for **AR31185PU-S**

### Insulin-like growth factor I / IGF1 (Long R3) Human Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Insulin-like growth factor I / IGF1 (Long R3) human recombinant protein, 0.2 mg
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	MFPAMPLSSL FVNGPRTL CG AELVDALQFV CGDRGFYFNK PTGYGSSSRR APQTGIVDEC CFRSCDLRRL EMYCAPLKPA KSA
<b>Predicted MW:</b>	9.1 kDa
<b>Purity:</b>	>98% pure by SDS-PAGE and HPLC analyses
<b>Buffer:</b>	Presentation State: Purified State: Lyophilized (sterile filtered) purified protein without additives Preservative: None Stabilizer: None
<b>Bioactivity:</b>	Biological: The ED50 was determined by a cell proliferation assay using FDC-P1 cells is $\leq 2.0$ ng/ml, corresponding to a specific activity of $\geq 5 \times 10^5$ units/mg.
<b>Endotoxin:</b>	< 0.1 ng per $\mu\text{g}$ (1EU/ $\mu\text{g}$ )
<b>Reconstitution Method:</b>	Restore in water to a concentration of 0.1-1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 2-8°C for 1 week or -20°C for future use.
<b>Preparation:</b>	Lyophilized (sterile filtered) purified protein without additives
<b>Protein Description:</b>	Recombinant Human IGF-I LR3 is a 9.1 kDa, single, non-glycosylated polypeptide chain containing 83 amino acid residues.
<b>Note:</b>	Centrifuge the vial prior to opening!
<b>Storage:</b>	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_000609</a>



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<b>Locus ID:</b>	3479
<b>UniProt ID:</b>	<a href="#">P05019</a>
<b>Cytogenetics:</b>	12q23.2
<b>Synonyms:</b>	IGF-I, Somatomedin-C, Mechano growth factor, MGF, IBP1
<b>Summary:</b>	The protein encoded by this gene is similar to insulin in function and structure and is a member of a family of proteins involved in mediating growth and development. The encoded protein is processed from a precursor, bound by a specific receptor, and secreted. Defects in this gene are a cause of insulin-like growth factor I deficiency. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein. [provided by RefSeq, Sep 2015]
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein
<b>Protein Pathways:</b>	Dilated cardiomyopathy, Focal adhesion, Glioma, Hypertrophic cardiomyopathy (HCM), Long-term depression, Melanoma, mTOR signaling pathway, Oocyte meiosis, p53 signaling pathway, Pathways in cancer, Progesterone-mediated oocyte maturation, Prostate cancer